



# **BAR CODE MEDICATION ADMINISTRATION (BCMA)**

## **INSTALLATION GUIDE**

PSS\*1\*46  
PSJ\*5\*58  
BAR CODE MED ADMIN 2.0

Version 2.0  
May 2002



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# BCMA V. 2.0 and This Guide

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## Benefits of BCMA V. 2.0



### TIP:

BCMA is designed to augment, not replace, the clinical judgment of the medication administrator, or clinician.

The Bar Code Medication Administration (BCMA) V. 2.0 software is the result of enhancement requests from the BCMA Workgroup. This section provides an overview of the major changes in BCMA V. 2.0.

**Note:** The *BCMA V. 2.0 Release Notes* provides more detailed information about all enhancements, including modifications to the options, files, and fields in Inpatient Medications V. 5.0. These modifications were needed to provide BCMA V. 2.0 with the Unit Dose and IV medication data that displays on the BCMA Virtual Due List (VDL) and that prints on reports.

- **IV Medications:** With BCMA V. 2.0, clinicians can now administer **active** Unit Dose, IV Push, IV Piggyback, and large-volume IV medications to inpatients at VA Medical Centers.
- **Medications Tabs:** Three Tabs are provided on the BCMA VDL, designed for separating and viewing the different types of active medication orders. The Tab under which an order displays depends on how the order was entered.
- **Alerts:** Medication Tabs provide an “alert” light, which turns green when a patient has active medication orders associated to them. Additional patient safety measures include an “alert” if due medications are *not* administered, and a listing of all food, drug, and “other type” Allergies and Adverse Drug Reactions (ADRs) documented for the patient in the Allergy/Adverse Reaction Tracking (ART) package.
- **Improved Communication:** BCMA V. 2.0 improves communication with the Pharmacy by identifying IV medications on the BCMA VDL with a Unique Identifier Number. This number is generated when the Pharmacy prints a bar code label for an IV bag.
- **Marking Medications:** Clinicians can now mark multiple medications, and document the administration of medications to the level of Removal, plus document patient medications *not* administered for specific reasons.
- **CPRS Med Order Button:** BCMA V. 2.0 helps streamline the workflow in ICU-type environments with the CPRS Med Order Button (or “Hot Button”) on the BCMA Tool Bar. This button links clinicians directly to the Computerized Patient Record System (CPRS) for electronically ordering, documenting, reviewing, and signing verbal- and phone-type STAT and NOW (One-Time) medication orders that they have administered to patients.

# BCMA V. 2.0 and This Guide

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## Benefits of This Guide

Preparing your site for the installation and implementation of BCMA V. 2.0 helps to ensure a smooth integration. This Installation Guide is designed to help you do just that. It includes detailed information such as system requirements; installation time estimates and instructions; and procedures that will get you up and running quickly with BCMA V. 2.0.

## Our Target Audience

We have developed this guide for the following individuals, who are responsible for installing, supporting, maintaining, and testing this package.

- Development Engineering
- Information Resources Management (IRM)
- Clinical Application Coordinator (CAC) – called Applications Package Coordinator (ADPAC) at some sites
- National VISTA Support (NVS)
- Software Quality Assurance (SQA)

## Other Sources of Information



### TIP:

Bookmark these sites for future reference.

Refer to the Web sites listed below when you want to receive more background and technical information about BCMA V. 2.0.

## Background/Technical Information

From your Intranet, enter <http://vista.med.va.gov/bcma> in the Address field to access the BCMA Main Web page.

## This Manual and Related Documentation

From your Intranet, enter <http://vista.med.va.gov/vdl> in the Address field to access this manual, and other BCMA V. 2.0 documentation listed below, from the VISTA Documentation Library (VDL).

- Technical Manual/Security Guide
- Release Notes
- GUI User Manual
- Nursing CHUI User Manual
- Pharmacy CHUI User Manual
- Manager's User Manual

# BCMA V. 2.0 and This Guide

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## Conventions Used in This Guide



### TIP:

In a CHUI environment, when you press **ENTER**, instead of typing a response, the system accepts the default value shown to the left of the double slash (//) at a prompt or field.

Before installing BCMA V. 2.0, review this section to learn the many conventions used throughout this guide.

- **Keyboard Responses:** Keys provided in **boldface**, within the steps, help you quickly identify what to press on your keyboard to perform an action. See the examples provided below.
  - **Within the Steps:** At the “Select Kernel Installation & Distribution System Option:” prompt, type **INSTALL**, and then press **ENTER**.
  - **Within Screen Captures:** Text in **boldface**, centered between arrows on screen captures, identifies the key you must press for the system to capture your response or to move the cursor to the next field. See the following example.

DEVICE FOR QUEUED JOB OUTPUT: **<Enter>**

- **Mouse Responses:** Buttons provided in **boldface**, within the steps, indicate what you should click on your computer screen using the mouse. For example, when you see **NEXT**, **YES/NO**, or **OK** in the steps, click the appropriate button on your computer screen.
- **User Responses:** Information presented in **boldface**, within steps or shaded screen captures, indicate what you should “type” (enter) onto your computer screen. See the examples provided below.
  - **Within the Steps:** At the “Select OPTION NAME:” prompt, type **XPD MAIN** and then press **ENTER**.
  - **Within Screen Captures:** See the following example.

RESCHEDULING FREQUENCY: **1M**

- **Screen Captures:** Provide “shaded” examples of what you will see on your computer screen, and possible user responses.
- **Notes:** Provided within the steps, describe exceptions or special cases about the information presented. They reflect the experience of our Staff, Developers, and Testers.

# BCMA V. 2.0 and This Guide

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## Conventions Used in This Guide (cont.)



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### TIP:

In a CHUI environment, you can exit a menu option by typing a caret (^), then pressing **ENTER**. A caret is sometimes called Up-Arrow.

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Before installing BCMA V. 2.0, review this section to learn the many conventions used throughout this guide.

- **Tips:** Located in the left margin, these helpful hints are designed to help you work more efficiently with BCMA V. 2.0.
- **Menu Options:** When provided in *italics*, identifies a menu option. When provided in **boldface**, ALL CAPS, identifies the letters that you should type onto your computer screen, before pressing **ENTER**. The system then goes directly to the menu option. (**Note:** The letters do *not* have to be entered as capital letters, even though they are provided within the steps in this format.) See the examples provided below.
  - **Italicized:** Use the Kernel *First Line Routine Print* option to print a list containing the first line of every PSB routine.
  - **Capitalized:** At the “Taskman Management Option:” prompt, type **SCHED**ule/Unschedule Options, and then press **ENTER**.



# BCMA V. 2.0 and This Guide

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## Obtaining On-line Help

On-line help is designed right into the Graphical User Interface (GUI) and Character-based User Interface (CHUI) versions of BCMA V. 2.0, making it quick and easy for you to get answers to your questions. Here's how to access help in both versions of this application:

- **GUI BCMA:** Provides context-sensitive, on-line help and the Help menu.
  - ✓ **Context-Sensitive Help:** Place your "focus" on a feature, button, or Tab on the BCMA VDL, using the **TAB** key, and then press **F1** to receive help specific to that area of the BCMA VDL. In the case of a command, first highlight it in the Menu Bar or Right Click drop-down menu, and then press **F1**.
  - ✓ **Help Menu:** Open the Help menu, and then choose the Contents and Index command to receive help for every feature in GUI BCMA V. 2.0.
- **CHUI BCMA:** Lets you enter up to two question marks at any prompt to receive on-line help.
  - ✓ **One Question Mark:** Provides a brief statement related to the prompt.
  - ✓ **Two Question Marks:** Displays more detailed information about the prompt, plus any hidden actions.

## Locating Detailed Listings

You can obtain *and* print listings about BCMA V. 2.0 routines, and Data Dictionaries using the information provided below.

### Routines

Use the Kernel routine XINDEX to produce detailed listings of routines. Use the Kernel *First Line Routine Print* option to print a list containing the first line of every PSB routine.

### Data Dictionaries

The Data Dictionaries (DDs) are included in the on-line documentation for this software application. You can use the VA FileMan *List File Attributes* option, under *Data Dictionary Utilities* option, to print the Dictionaries.

# Pre-Installation Information

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## Minimum Required Packages



**TIP:**

BCMA V. 2.0  
requires  
a Master Build.

Before installing BCMA V. 2.0, make sure that your system includes the following Department of Veterans Affairs (VA) software packages and versions (those listed or higher).

The software listed is *not* included in the Master Build and must be installed for the Build to be completely functional.

**Note:** The Master Build provides all of the routines and patches necessary for installing BCMA V. 2.0. Patches required for other software packages are listed in the “Required Patches” section, and BCMA V. 2.0 routines are listed in the “Routines Installed” section of this guide.

### Example: Minimum Required Packages and Versions

PACKAGE	MINIMUM VERSION NEEDED
Inpatient Medications	5.0
Kernel	8.0
MailMan	7.1
Nursing	4.0
Order Entry/Results Reporting	3.0
Pharmacy Data Management	1.0
RPC Broker (32-bit)	1.1
Toolkit	7.3
VA FileMan	22.0

# Pre-Installation Information

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## Required Patches

Before installing the BCMA V. 2.0 Master Build, make sure that the following released patches are installed.

### Pharmacy Data Management V. 1.0

PSS\*1\*46 – requires the following patch

- PSS\*1\*44

### Inpatient Medications V. 5.0

PSJ\*5\*58 – requires the following patches

- PSJ\*5\*24
- PSJ\*5\*62
- PSS\*1\*46 – will be installed as part of the BCMA V. 2.0 Master Build
- PSJ\*5\*68
- PSJ\*5\*69
- PSJ\*5\*71
- PSJ\*5\*75

### CPRS V. 1.0

OR\*3\*133

### RPC Broker V. 1.1

XWB\*1.1\*26

XWB\*1.1\*29

## Installation Time Estimates



### IMPORTANT:

You should install and test BCMA in your test accounts **before** installing in your production accounts.

On average, it takes approximately one minute to install BCMA V. 2.0. This estimate was provided by one of our BCMA V. 2.0 Beta Test sites. Suggested time to install: non-peak requirement hours. PC Client users should not be accessing the Client Software.

The execution time of the post-install routine depends on the size of the database and the system that you are running. BCMA V. 2.0 Beta Test sites experienced execution times of at least 30 minutes. Users can be on the system while the post-install routine is running; however, it should not be run during a medication pass.

This routine adds an Index to the BCMA MEDICATION LOG file (#53.79). The BCMA Development Team recommends that Journaling be enabled and closely monitored during the execution of this routine.

**Note:** Actual times may vary, depending on how your site is using its system resources.

# Pre-Installation Information

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## Resource Requirements



### TIP:

The approximate size for ^PSB was calculated using a “normal” Med Pass for a Unit Dose and an IV medication order. This is only an estimated number; it serves as the “mean.”

This section summarizes the (approximate) number of resources required to install BCMA V. 2.0.

- |                        |  |
|------------------------|--|
| • Routines             | 52   |
| • Globals              | 1 (^PSB)   |
| • Files                | 5 (53.66-53.79)  |
| • ^PSB Size (in bytes) | Unit Dose = 300 x # of Medications Administered<br>IV = 2100 x # of IV Bags Administered |
| • FTEE Support         | .2   |
| • FTEE Maintenance     | .2   |

## Response Time Monitor

BCMA V. 2.0 does *not* include Response Time Monitor hooks.

## Laptops and Bar Code Scanners

The approximate requirements for laptops and bar code scanners depend on the number of Inpatient areas, at your site, that use BCMA V. 2.0 for administering **active** medication orders. The BCMA Development Team recommends that your site have a minimum of three laptops and three scanners for each ward.

## Printers

Your site should provide printers for creating patient wristbands and medication bar code labels, and for handling Missing Dose Requests sent from BCMA V. 2.0 to the Pharmacy.

## Unit Dose Label Printer Devices

BCMA V. 2.0 includes the *Label print* option for printing individual or batch Unit Dose bar code labels. It is specifically coded to the Zebra-brand printers using ZPL command language. Model 105SE was used in the development of the labels. Routine PSBOBL uses site-specific printers or terminals to produce labels.

## IV Label Printer Devices

Inpatient Medications V. 5.0 provides a menu option for printing individual or batch IV bar code labels. See the section “Interfacing with the Bar Code Label Printer” in the *Inpatient Medications V. 5.0 Technical Manual/Security Guide* for detailed setup information.

# Pre-Installation Information

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## Client PC Setup Requirements

Once all BCMA V. 2.0 files are installed, make sure that every Client PC includes the following minimum system configuration — *before* users can actually run BCMA V. 2.0 from it.

BCMA V. 2.0 runs best on Pentium PCs (166 minimum) with the following characteristics:

- Microsoft® Windows 98, NT 4.0, or 2000 operating system
- 32 megabytes (MB) of RAM
- 20 MB of free hard disk space
- Super VGA color monitor (256-color), 800 x 600 (or higher) resolution
- 8x CD-ROM drive
- 1.44 MB floppy disk drive
- One RS-232 serial port for the Bar Code Reader
- Network Adapter Card supporting TCP/IP at 1 megabits per second (Mbps) throughput

## Files Required to Run BCMA V. 2.0



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**TIP:**

The namespace for the BCMA package is PSB and the primary global is ^PSB.

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BCMA V. 2.0 uses the following files installed on the *VISTA* Server. “Journaling” is recommended.

- ^PSB (53.66, BCMA IV Parameters
- ^PSB (53.68, BCMA Missing Dose Request
- ^PSB (53.69, BCMA Report Request
- ^PSB (53.78, BCMA Medication Variance Log
- ^PSB (53.79, BCMA Medication Log

**Note:** You can learn more about these files by generating a list with file attributes using VA FileMan.

# Pre-Installation Information

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## Routines Installed

Review the listing below to learn the routines installed on to your site's **VISTA** Server during the installation of BCMA V. 2.0. The first line of each routine briefly describes its general function.

**Note:** You can use the Kernel *First Line Routine Print* option to print a list containing the first line of each PSB routine.

### Example: BCMA V. 2.0 Routines Installed on to VISTA Server

```
PSB0000 PSBALL PSBAIPM PSBMD PSBML PSBML1 PSBMLEN PSBMLEN1
PSBMLHS PSBMLTS PSBMLU PSBMLVAL PSBO PSBO1 PSBOAL PSBOBL
PSBODL PSBODL1 PSBODO PSBOHDR PSBOMD PSBOMH PSBOMH1 PSBOMH2
PSBOML PSBOMM PSBOMV PSBOPE PSBOPI PSBOPM PSBOWA PSBPAP
PSBPAPIV PSBPOIV PSBPRN PSBRPC PSBRPC1 PSBRPC2 PSBRPCMO PSBRPCXM
PSBSAGG PSBUTL PSBVAR PSBVDLIV PSBVDLPA PSBVDLPB PSBVDLTB PSBVDLU1
PSBVDLU2 PSBVDLUD PSBVDLVL PSBVT
```

## Items Deleted During the Install Process

This section lists the items deleted during the installation of BCMA V. 2.0.

- |             |                                     |
|-------------|-------------------------------------|
| • Files     | None                                |
| • Options   | None                                |
| • Routines  | PSBVDL, PSBVDL1, PSBVDL2,<br>PSBORL |
| • Templates | None                                |

# Installation Information

## VISTA Server Installation Instructions



### IMPORTANT:

You should install and test BCMA in your test accounts **before** installing in your production accounts.



### TIP:

Performing the steps in this section will help to ensure that GUI BCMA runs smoothly from a Client PC.

Perform the steps provided below to download BCMA V. 2.0 from an FTP Server. Then you will be ready to use this section for loading the KIDS Distribution file and the Broker Server file, and for installing BCMA V. 2.0 on to the VISTA Server.

**Note:** The installation process will make significant changes to routines, files, and fields within the BCMA V. 2.0 application.

### Task 1: Download BCMA V. 2.0 Software

Use the following information to download BCMA V. 2.0 from an FTP Server.

- 1 Download the BCMA GUI file PSB2\_0.exe, the Host File PSB\_2\_0.KID, and the Shared Broker file XWB1\_P29PG.exe from an FTP Server using an address listed in the table below.
  - The preferred method is to “FTP” the files from [download.vista.med.va.gov](http://download.vista.med.va.gov). This location automatically transmits files from the *first* available FTP Server. (See the order listed below under the FTP Address column).
    - .EXE or .PDF files need to be FTP in BINARY.
    - KIDS Build needs to be FTP in ASCII.

**Note:** If you prefer, you can retrieve the software *directly* from one of the FTP Servers, listed below, under the FTP Address column.

- 2 Move the files to the appropriate directory on your system.

### Example: FTP Addresses Available for Downloading BCMA V. 2.0 Software

OI FIELD OFFICE	FTP ADDRESS	DIRECTORY
Albany	<a href="http://ftp.fo-albany.med.va.gov">ftp.fo-albany.med.va.gov</a>	anonymous.software
Hines	<a href="http://ftp.fo-hines.med.va.gov">ftp.fo-hines.med.va.gov</a>	anonymous.software
Salt Lake City	<a href="http://ftp.fo-slc.med.va.gov">ftp.fo-slc.med.va.gov</a>	anonymous.software

# Installation Information

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## **VISTA Server Installation Instructions (cont.)**

### **Task 2: Load the KIDS Distribution File**

Perform the steps listed below to load the KIDS Distribution file.

- 1** Sign into the UCI where the KIDS Distribution file will be loaded and BCMA V. 2.0 will be installed.
- 2** At the “Select OPTION NAME:” prompt, type **XPD MAIN**, and then press **ENTER**.
- 3** At the “Select Kernel Installation & Distribution System Option:” prompt, type **INSTALLation**, and then press **ENTER**.
- 4** At the “Select Installation Option:” prompt, type **Load a Distribution**, and then press **ENTER** to prepare for loading the KIDS Distribution file.
- 5** At the “Enter a Host File:” prompt, type **the directory where you have stored the Host File**, followed by **PSB\_2\_0.KID**. Then press **ENTER**.
- 6** At the “Want to Continue with Load YES//?” prompt, press **ENTER**. The system then loads the file to this location.

### **Task 3: Install BCMA V. 2.0**

Now you are ready to install BCMA V. 2.0 on to the **VISTA** Server. Suggested time to install: non-peak requirement hours. PC Client users should not be accessing the Client Software.

**Note:** You should perform the step #1 listed below **now** if you are planning to install BCMA V. 2.0 immediately. However, if you are installing the application at another time, ask users to log off your system at that time.

- 1** From the Facility Tab of the GUI BCMA Site Parameters application, take BCMA users offline.
- 2** Request that all BCMA users log off BCMA.
- 3** Review mapped sets for PSB\*, PSJ\*, PSG\*, and PSIV\*, namespaces.
  - If the routines are mapped, remove them from the mapped set at this time.
- 4** Backup your system. This step is optional, but recommended.
- 5** At the “Select INSTALL NAME:” prompt, type PSB 2.0 and then press **ENTER** to install BCMA V. 2.0. This Build provides all of the routines, files, and patches necessary for BCMA V. 2.0. It includes PSB 2.0, PSS\*1\*46, PSJ\*5\*58, and BAR CODE MED ADMIN 2.0.

**Note:** During the installation process, the system deletes four (obsolete) routines: 1) PSBVDL, 2) PSBVDL1, 3) PSBVDL2, and PSBORL.



# Installation Information

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## VISTA Server Installation Instructions (cont.)

### Task 3: Install BCMA V. 2.0 (cont.)

- 6 At the “Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES//” prompt, type **NO**, and then press **ENTER**. This prompt will display two more times during the installation process. Repeat this step when prompted by the system.
- 7 At the “Want KIDS to INHIBIT LOGONs during the install? YES//” prompt, type **NO**, and then press **ENTER**.
- 8 At the “Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES//” prompt, type **NO**, and then press **ENTER**.
- 9 At the “DEVICE:” prompt, press **ENTER** to use the default device HOME (the screen) for printing the Installation message. If you want to print a hard copy, enter your site printer, and then press **ENTER**.
- 10 At the “Requested Start Time: NOW//” prompt, press **ENTER** to accept the default of NOW. If you want, you can schedule the install to run at a later date.
- 11 If routines were unmapped as part of the installation process, return them to the mapped set once the installation of BCMA V. 2.0 is completed.
- 12 From the Facility Tab of the GUI BCMA Site Parameters application, place BCMA V. 2.0 back on-line.

### Additional Preparation for BCMA V. 2.0

Now you are ready to perform the steps listed below to further prepare your site and staff for using BCMA V. 2.0.

- 1 If you are an MSM site, move the PSB routines only, to all nodes.
- 2 Assign the following security keys to appropriate site personnel.
  - **PSB MANAGER** – designates the holder as a manager
  - **PSB INSTRUCTOR** – designates the holder as a nursing instructor supervising student nurses
  - **PSB STUDENT** – designates the holder as a student nurse, requiring that an instructor also sign on to BCMA V. 2.0 at the same time
  - **PSB CPRS MED BUTTON** – designates the holder as a nurse who can document administered verbal- and phone-type STAT and NOW orders using the CPRS Med Order Button on the BCMA V. 2.0 VDL

# Working with GUI BCMA V. 2.0

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## VISTA Server Setup Requirements

This section lists the setup instructions that you should perform on the VISTA Server — once all files are installed — *before* users actually run BCMA V. 2.0 directly from it.

### To Set up the VISTA Server:

- 1 Verify that the RPC Broker is installed on to the VISTA Server.
- 2 Verify that the BCMA V. 2.0 Server software is installed on to the VISTA Server.
- 3 Obtain a Broker Server IP address and port from your Server Administrator.
- 4 Assign the secondary menus “PSB GUI CONTEXT – USER” and “OR BCMA ORDER COM” to each BCMA user.

## Client PC Setup Requirements

Once all BCMA V. 2.0 files are installed, make sure that every Client PC includes the following minimum system configuration — *before* users can actually run BCMA V. 2.0 from it.

BCMA V. 2.0 runs best on Pentium PCs (166 minimum) with the following characteristics:

- Microsoft® Windows 98, NT 4.0, or 2000 operating system
- 32 megabytes (MB) of RAM
- 20 MB of free hard disk space
- Super VGA color monitor (256-color), 800 x 600 (or higher) resolution
- 8x CD-ROM drive
- 1.44 MB floppy disk drive
- One RS-232 serial port for the Bar Code Reader
- Network Adapter Card supporting TCP/IP at 1 megabits per second (Mbps) throughput

# Working with GUI BCMA V.2.0

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## Standard Installation Procedure for GUI BCMA V. 2.0



### TIP:

If you are upgrading BCMA, make sure that users log off the current version **before** performing these instructions.



### TIP:

Before running GUI BCMA from a Client PC, make sure that the Shared Broker is installed.

Use the instructions listed below to install the GUI version of BCMA V. 2.0, on a Client PC. You can use BCMA V. 2.0 to upgrade an earlier version of BCMA, or you can install BCMA V. 2.0 without previous versions being installed.

### To Install GUI BCMA V. 2.0 on a Client PC:

- 1** Locate the directory where you downloaded the Shared Broker file XWB1\_1P29PG.exe via FTP, and then double click on the file to install the Shared Broker.
  - To ensure that XWB1\_1P29 has been installed, browse to the standard installation path, C:\Program Files\vista\Common Files. Verify whether the following files exist: “RPCSharedBrokerSessionMgr.exe” and “RPCSharedBrokerSessionMgr1.exe.”
- 2** Locate the directory where you downloaded the GUI BCMA V. 2.0 file PSB2\_0.exe via FTP, and then double click on the file to launch the InstallShield Wizard.
- 3** Click **YES** at the message, "Would you like to install BCMA?"
- 4** At the InstallShield Wizard Welcome screen, click **NEXT**.
- 5** Read the contents of the BCMA Installation screen, and then click **NEXT**.
- 6** Click **NEXT** at the Choose Destination Location screen.
  - Click **BROWSE** if you want to locate another folder to replace the default destination folder. Once located and selected, click **NEXT** to proceed with the installation process.
- 7** At the Setup Type screen, select one of the following choices, then click **NEXT** to continue with the installation process. “Typical” is the default installation.
  - **Typical** – Installs the BCMA Client program *and* the GUI BCMA Site Parameters program.
  - **Compact** – Installs only the BCMA Client program, which is necessary for using BCMA V. 2.0 to perform the medication administration process.
  - **Custom** – Lets you select which programs (i.e., BCMA Client program or GUI BCMA Site Parameters program) that you want to install.
- 8** At the InstallShield Wizard Complete screen, click **FINISH** to complete the BCMA installation process. BCMA V. 2.0 is now installed on to the PC.

# Working with GUI BCMA V. 2.0

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## Working with the Hosts File on the Client PC



### TIP:

Users **must** have FULL read/write access to the BCMA directory on the Client PC that they're using.



### TIP:

You must have at least one space between the address and the name. Do *not* put any spaces in the name.

Make sure that every Client PC has a link established between the Client PC and the **VISTA** Server via the Hosts file on the PC — *before* running GUI BCMA V. 2.0 from a Client PC. Then you can set up the Optional Command Line Parameters using the table provided in the next section.

Where your Hosts file (no extension) is located, depends on your system. For example:

- **Microsoft Windows 98** – C:\Windows
- **Microsoft Windows NT 4.0, or 2000** – C:\WinNt\System32\Drivers\Etc.

### ➤ If No Hosts File Exists

If the Hosts file does *not* exist, create one. (Your system may already contain a sample file called “hosts.sam.”) If you create the file using Notepad, it will automatically save the file with a .txt extension. You can use Microsoft Explorer to rename the file without an extension.

### ➤ If the Hosts File Exists

If the Hosts file already exists, do *not* delete anything. Just add the new information (i.e., the address and the name) at the end of the file. See the examples provided below.

- **If a user only needs access to one BCMA Server and the ServerPort is 9200**, add one line to the Hosts file. Use the IP address provided by your Server Administrator. See the example provided below.
  - 152.111.222.333 BrokerServer
- **If the user only needs to access one BCMA Server and the ServerPort is *not* 9200**, add one line to the Hosts file as shown in the example provided above in step #1. Then use the table in the next section to set up the Optional Command Line Parameters.
- **If the user needs to access multiple BCMA Servers and/or the ServerPort is *not* 9200**, add the BCMA Server names to the Hosts file. (The names can be anything you like.) See the examples listed below. Then use the table in the next section to set up the Optional Command Line Parameters.
  - 152.111.222.333 BrokerServer1
  - 152.222.333.444 BrokerServer2

# Working with GUI BCMA V.2.0

---

## Setting up Optional Command Line Parameters

Use the table provided below to set up the Optional Command Line Parameters. The order that you set up each Parameter is up to your site. However, each Parameter must be continuous, without any spaces.

**Note:** If Parameters “S” and “P” are set, they must both be present, or the Client PC will ignore them.

### Example: Set up for Optional Command Line Parameters

PARAMETER	EXAMPLE (DEFAULT)	DESCRIPTION
S=	S=BrokerServer	The name of the BCMA Broker Server, as defined in the Hosts file. The default is “BrokerServer.”
P=	P=9200	The server port used by the BCMA Broker Server. The default is “9200.”
L=	L=C:\Temp	The DOS path location for the BCMA Error Log file. Any DOS path will work. The default is “C:\Temp.”
T=	T=60	RPC Broker TimeOut in seconds. This is the amount of time that BCMA V. 2.0 will wait for a response from an RPC on <b>VISTA</b> . If it is <i>not</i> defined, the default value is three minutes. The minimum value is 30 seconds; anything less is ignored. If the <b>VISTA</b> System's CPU utilization is near 100 percent, and frequent timeouts occur in the GUI version of BCMA V. 2.0, you can increase this value.  <b>NOTE:</b> The higher the value, the longer BCMA V. 2.0 will appear to hang until the RPC Broker call is complete.
/NOLOGFILE		This parameter disables the Error Log.
/DEBUG		This parameter turns on (displays) the BCMA Debug screens.

# Working with the Monthly SAGG Report

---

## Setting up the Monthly Batch Job



**TIP:**

You can use FORUM to view your monthly SAGG Report.



**TIP:**

In step #7, ### is the number of the entry.



**TIP:**

See the next page to view the set up of a monthly SAGG Report.

Use the steps listed below to set up your system to run the Monthly Statistical Analysis of Global Growth (SAGG) Report.

**Note:** You do *not* need to perform the steps listed below if you have already set up the Monthly SAGG Report. If you have *not*, use the steps listed below.

### To Set up the Monthly Batch Job:

- 1 At the Programmer's prompt, type **D ^XUP**, and then press **ENTER** to access the menu option for setting up your Monthly SAGG Report.
- 2 At the "Select OPTION NAME:" prompt, type **EVE**, and then press **ENTER**.
- 3 From the list of choices, select Systems Manager Menu, and then press **ENTER**.
- 4 At the "Select Systems Manager Menu Option:" prompt, type **TASKman Management**, and then press **ENTER**.
- 5 At the "Select Taskman Management Option:" prompt, type **SCHEDule/Unschedule Options**, and then press **ENTER**.
- 6 At the "Select OPTION schedule or reschedule:" prompt, type **PSB SAGG MONTHLY REPORT**, and then press **ENTER**.
- 7 At the "Are you adding 'PSB SAGG MONTHLY REPORT' as a new OPTION SCHEDULING (the ###)? No/?" prompt, type **Yes**, and then press **ENTER**. The Edit Option Schedule screen displays.
- 8 At the "QUEUED TO RUN AT WHAT TIME:" prompt, type a **date and time when you want the report to run**, in a VA FileMan format. Then press **ENTER** to move to the next prompt.
- 9 At the "DEVICE FOR QUEUED JOB OUTPUT:" prompt, press **ENTER** (leave this prompt blank).
- 10 At the "QUEUED TO RUN ON VOLUME SET:" prompt, type **the volume set (CPU)** to use for running the monthly batch job. Then press **ENTER** to move to the next prompt.
- 11 At the "RESCHEDULING FREQUENCY:" prompt, type **1M** to run the report on a monthly basis. Then press **ENTER** to move to the next prompt.
- 12 At the "TASK PARAMETERS:" prompt, press **ENTER** (leave this prompt blank).
- 13 At the "SPECIAL QUEUEING:" prompt, press **ENTER** (leave this prompt blank).
- 14 At the "COMMAND:" prompt, type **S** to save the settings, and then press **ENTER**. Your report will print on the same day and time each month (until you specify otherwise).
- 15 At the "COMMAND:" prompt, type **E** to exit the Edit Option Schedule screen.

# Working with the Monthly SAGG Report

---

## Setting up the Monthly Batch Job (cont.)

The following example illustrates the set up process for running the SAGG Monthly Report at your site.

### Example: Set up for SAGG Monthly Report

```
>D ^XUP

Setting up programmer environment
Terminal Type set to: C-VT320

Select OPTION NAME: EVE
    1  EVE          Systems Manager Menu
    2  EVENT CAPTURE DATA ENTRY  ECENTER      Event Capture Data Entry
    3  EVENT CAPTURE MANAGEMENT MENU  ECMGR      Event Capture Management
Menu
    4  EVENT CAPTURE MENU  ECMENU      Event Capture Menu
    5  EVENT CAPTURE ONLINE DOCUMENTA  ECDSONL      Event Capture Online
Documentation

Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 1  EVE          Systems Manager Menu

Select Systems Manager Menu Option: TASKman Management

Select Taskman Management Option: SCHEDule/Unschedule Options

Select OPTION to schedule or reschedule: PSB SAGG MONTHLY REPORT      Monthly
SAGG Report
    ...OK? Yes//  <Enter>
```

# Working with the Monthly SAGG Report

---

## Setting up the Monthly Batch Job (cont.)

The example provided below illustrates the prompts (fields) to complete on the Edit Option Schedule screen for running the PSB SAGG Monthly Report at your site.

### Example: Set up for SAGG Monthly Report (cont.)

Edit Option Schedule	
Option Name: PSB SAGG MONTHLY REPORT	
Menu Text: Monthly SAGG Report	TASK ID:

---

QUEUED TO RUN AT WHAT TIME: **<Date, time to run the report>**

DEVICE FOR QUEUED JOB OUTPUT: **<Enter>**

QUEUED TO RUN ON VOLUME SET: **<Volume set (CPU)>**

RESCHEDULING FREQUENCY: **1M**

TASK PARAMETERS: **<Enter>**

SPECIAL QUEUEING: **<Enter>**

---

Exit      Save      Next Page      Refresh

Enter a command or '^' followed by a caption to jump to a specific field.

COMMAND: <b>S</b>	Press <PF1>H for help	Insert
COMMAND: <b>E</b>	Press <PF1>H for help	Insert



# Post-Installation Information

---

## Changes to IV Verification in Inpatient Medications



---

**TIP:**

Patch PSJ\*5\*58 is included in the Master Build of BCMA V. 2.0.

---

IV verification is now required with the PSJ\*5\*58 patch. For orders that were entered prior to the installation of this patch, an algorithm was designed to determine the verifying pharmacist. The verifying user IEN is stored in the VERIFYING PHARMACIST sub-field (#140) of the IV multiple (#100) of the PHARMACY PATIENT file (#55), which was added with patch PSS\*1\*46. The DATE VERIFIED BY PHARMACIST sub-field (#141) of the IV multiple (#100) of the PHARMACY PATIENT file (#55), which has also been added with patch PSS\*1\*46, will reflect the installation date and time.

The Activity Log for the IV Order stored the user name in free text. During this conversion, the free text user name is compared to the NEW PERSON file (#200). If there is an exact and unique match, then the IEN for this person is stored in the USER sub-field (#.06) of the ACTIVITY LOG multiple (#40) of the IV multiple (#100) of the PHARMACY PATIENT file (#55) that was added with patch PSS\*1\*46.

If the software is able to determine the user's IEN, for all affected IV orders, and no intervention is required, the MailMan message generated by the conversion will contain only the conversion information. The subject of this message will be: PSJ\*5\*58 IV Verification. See the examples provided in this section.

### Example: Prior IV Orders Marked as Verified

```
Subj: PSJ*5*58 IV Verification  [#83060] 16 Jan 02 15:28  2 lines
From: PSJ*5*58  In 'IN' basket.  Page 1
```

```
-----
Marking prior IV orders as verified started: Jan 16, 2002@15:28:20
It ran to completion: Jan 16, 2002@15:28:20
```

```
Enter message action (in IN basket): Ignore//
```

# Post-Installation Information

---

## Changes to IV Verification in Inpatient Medications (cont.)

When the software is unable to determine the user's IEN, the MailMan message generated by this conversion will instruct the installer to assign the *Correct Change User Names in IV activity log* option to a holder of the PSJI MGR security key who is familiar with the Pharmacy users to allow them to correct the unresolved names. The subject of this message will be: PSJ\*5\*58 IV Verification.

Once all of the unresolved names are resolved, another MailMan message is generated. This message will instruct the user who ran the Correct Change User Names in IV activity log [PSJI ACTIVITY LOG VA200] option to contact IRM to remove the option. The subject of this message is Changed names in IV orders. See the second Example provided below.

The site has 30 days to correct names in the IV Activity Log, after which the XTMP will be deleted. If this correction is not made, the user name will not display on the Activity Log.

### Example: MailMan Message Instruction to Run PSJI ACTIVITY LOG VA 200 Option

```
Subj: PSJ*5*58 IV Verification  [#83054] 11 Jan 02 10:47  6 lines
From: PSJ*5*58  In 'IN' basket.  Page 1
```

```
-----
Marking prior IV orders as verified started: Jan 11, 2002@10:47:28
It ran to completion: Jan 11, 2002@10:47:46
```

```
Please assign the PSJI ACTIVITY LOG VA200 option to a holder of the
PSJI MGR key who is familiar with the Pharmacy users to correct any names
that the software was unable to match to the New Person file (#200).
```

```
Enter message action (in IN basket): Ignore//
```

### Example: MailMan Message Instruction to Remove PSJI ACTIVITY LOG VA 200 Option

```
Subj: Changed names in IV orders  [#83055] 11 Jan 02 12:21  5 lines
From: PSJ*5*58 INSTALL  In 'IN' basket.  Page 1
```

```
-----
The process that has replaced the changed names in the IV orders has finished.
```

```
Please have IRM remove the PSJI ACTIVITY LOG VA200 option, as it is no
longer needed.
```

```
Enter message action (in IN basket): Ignore//
```

## Post-Installation Information

---

### Changes to IV Verification in Inpatient Medications (cont.)

An entry is made in the ACTIVITY LOG multiple (#40) of the IV multiple (#100) of the PHARMACY PATIENT file (#55) to indicate the verification action was performed during the installation of this patch. The user in the log entry is the verifying pharmacist determined during the conversion. See the first example provided below.

#### Example: Entry Made in IV Orders Activity Log

```
ACTIVITY LOG:
#  DATE          TIME          REASON          USER
=====
1  JAN 11,2002  10:47:41  VERIFY          INPATIENT-MEDS, PHARMACIST
    Comment: AUTO VERIFIED WITH PATCH PSJ*5*58
```

### Changes to the BCMA Medication Log File

Upon completion of the installation of BCMA V. 2.0, a post-install routine will be started to build a new Index in the BCMA MEDICATION LOG file (#53.79). When the build is complete, the user who initiated the install will receive a message with a subject of BUILD OF PATCH CROSSREFERENCE COMPLETE. See the example provided above.

#### Example: MailMan Message Generated During BCMA V. 2.0 Installation

```
Subj: BUILD OF PATCH CROSSREFERENCE COMPLETE [#130111] 24 Apr 02 10:31 1 line
From: MEDICATIONS,INPATIENT In 'WASTE' basket. Page 1
-----
The build of the PATCH crossreference completed as of APR 24,2002@10:31:20.
Enter message action (in WASTE basket): Ignore//
```

# Glossary

## Learning BCMA V. 2.0 Lingo

The alphabetical listing, in this section, is designed to familiarize you with the many acronyms and terms used throughout this guide.

### Example: Alphabetical Listing of BCMA V. 2.0 Acronyms and Terms

ACRONYM/TERM	DEFINITION
<b>Broker Server</b>	The M portion of RPC Broker within the VA's Veterans Health Information Systems and Technology Architecture ( <b>VISTA</b> ) environment.
<b>CHUI</b>	<b>Character-based User Interface.</b>
<b>Client</b>	An architecture in which one computer can get information from another. The Client is the computer that asks for access to data, software, or services.
<b>CPRS</b>	<b>Computerized Patient Record System.</b> A <b>VISTA</b> software application that allows users to enter patient orders into different software packages from a single application. All pending orders that appear in the Unit Dose and IV packages are initially entered through the CPRS package. Clinicians, Managers, Quality Assurance Staff, and Researchers use this integrated record system.
<b>Data Dictionary</b>	Also called "DD," the dictionary that contains file attributes.
<b>FileMan</b>	The <b>VISTA</b> database management system.
<b>FTEE</b>	<b>Full Time Equivalent Employee.</b>
<b>GUI</b>	<b>Graphical User Interface.</b> The type of interface chosen for BCMA V. 2.0.
<b>IV</b>	A medication given intravenously (within a vein) to a patient from an IV bag. IV types include Admixture, Chemotherapy, Hyperal, Piggyback, and Syringe.
<b>Journaling</b>	A record of changes made in files and messages transmitted. It is quite useful when recovering previous versions of a file before updates were made, or to reconstruct updates if an updated file gets damaged.
<b>PSB CPRS MED BUTTON</b>	The name of the security "key" that must be assigned to nurses who document verbal- and phone-type STAT and NOW (One-Time) medication orders using the CPRS Med Order Button on the BCMA V. 2.0 VDL.
<b>PSB INSTRUCTOR</b>	The name of the security "key" that must be assigned to nursing instructors, supervising nursing students, so they can access user options within BCMA V. 2.0.
<b>PSB MANAGER</b>	The name of the security "key" that must be assigned to managers so they can access the PSB Manager options within BCMA V. 2.0.
<b>PSB STUDENT</b>	The name of the security "key" that must be assigned to student nurses so they can access user options within BCMA V. 2.0. This key also requires that a nurse sign on to BCMA V. 2.0.

# Glossary

---

## Learning BCMA V. 2.0 Lingo (cont.)

The alphabetical listing, in this section, is designed to familiarize you with the many acronyms and terms used throughout this guide.

### Example: Alphabetical Listing of BCMA V. 2.0 Acronyms and Terms

ACRONYM/TERM	DEFINITION
<b>RPC</b>	<b>Remote Procedure Call.</b> A procedure stored on the <b>VISTA</b> Server, which is executed to return data to the Client.
<b>RPC Broker</b>	A Client/Server System within the VA's Veterans Health Information Systems and Technology Architecture ( <b>VISTA</b> ) environment. It enables client applications to communicate and exchange data with M Servers.
<b>Security Keys</b>	Used to access specific options within BCMA V. 2.0 that are otherwise "locked" without the security key. Only users designated as "Holders" may access these options.
<b>Server</b>	An architecture in which one computer can get information from another. The Server, which can be anything from a personal computer to a mainframe, supplies the requested data or services to the Client.
<b>VDL</b>	<b>Virtual Due List.</b> An on-line "list" used by clinicians when administering <b>active</b> medication orders (i.e., Unit Dose, IV Push, IV Piggyback, and large-volume IV) to a patient. This is the Main Screen in BCMA V. 2.0. <b>Note:</b> This is called BCMA VDL in this guide to eliminate confusion with the <b>VISTA</b> Documentation Library (VDL) also mentioned in this guide.
<b>VISTA</b>	<b>Veterans Health Information Systems and Technology Architecture.</b>

## APPENDIX A: Sample KIDS Load & Installation

---

```
>D ^XUP

Setting up programmer environment
Terminal Type set to: C-VT320

Select OPTION NAME: XPD MAIN           Kernel Installation & Distribution System

Select Kernel Installation & Distribution System Option: INSTALLation

Select Installation Option: ?

    1      Load a Distribution
    2      Verify Checksums in Transport Global
    3      Print Transport Global
    4      Compare Transport Global to Current System
    5      Backup a Transport Global
    6      Install Package(s)
           Restart Install of Package(s)
           Unload a Distribution

Select Installation Option: 1 Load a Distribution
Enter a Host File: <Enter a directory where you have stored the Host File,
followed by PSB_2_0.KID>

KIDS Distribution saved on May 10, 2002@10:03:04
Comment: BAR CODE MED ADMIN V2

This Distribution contains Transport Globals for the following Package(s):
    PSB 2.0
    PSS*1.0*46
    PSJ*5.0*58
    BAR CODE MED ADMIN 2.0

Distribution OK!

Want to Continue with Load? YES// <Enter>
Loading Distribution...

    PSB 2.0
    PSS*1.0*46
    PSJ*5.0*58
    BAR CODE MED ADMIN 2.0
Use INSTALL NAME: PSB 2.0 to install this Distribution.
```

## APPENDIX A: Sample KIDS Load & Installation

---

```
Select Installation Option: ?

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
      Restart Install of Package(s)
      Unload a Distribution

Select Installation Option: 6  Install Package(s)
Select INSTALL NAME: PSB 2.0      Loaded from Distribution 5/10/02@10:05:06
=> BAR CODE MED ADMIN V2 ;Created on May 10, 2002@10:03:04

This Distribution was loaded on May 10, 2002@10:05:06 with header of
BAR CODE MED ADMIN V2 ;Created on May 10, 2002@10:03:04
It consisted of the following Install(s):
PSB 2.0      PSS*1.0*46      PSJ*5.0*58      BAR CODE MED ADMIN 2.0

Checking Install for Package PSB 2.0

Install Questions for PSB 2.0

Checking Install for Package PSS*1.0*46

Install Questions for PSS*1.0*46

Incoming Files:

55      PHARMACY PATIENT (Partial Definition)
Note: You already have the 'PHARMACY PATIENT' File.

Checking Install for Package PSJ*5.0*58

Install Questions for PSJ*5.0*58

Incoming Files:

53.1      NON-VERIFIED ORDERS (Partial Definition)
Note: You already have the 'NON-VERIFIED ORDERS' File.

53.3      ACTIVITY LOG REASON (including data)
Note: You already have the 'ACTIVITY LOG REASON' File.
I will OVERWRITE your data with mine.

Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO

Checking Install for Package BAR CODE MED ADMIN 2.0

Install Questions for BAR CODE MED ADMIN 2.0
```

## APPENDIX A: Sample KIDS Load & Installation

---

Incoming Files:

53.66 BCMA IV PARAMETERS

Note: You already have the 'BCMA IV PARAMETERS' File.

53.68 BCMA MISSING DOSE REQUEST

Note: You already have the 'BCMA MISSING DOSE REQUEST' File.

53.69 BCMA REPORT REQUEST

Note: You already have the 'BCMA REPORT REQUEST' File.

53.78 BCMA MEDICATION VARIANCE LOG

Note: You already have the 'BCMA MEDICATION VARIANCE LOG' File.

53.79 BCMA MEDICATION LOG

Note: You already have the 'BCMA MEDICATION LOG' File.

8989.51 PARAMETER DEFINITION (including data)

Note: You already have the 'PARAMETER DEFINITION' File.  
I will REPLACE your data with mine.

Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// **NO**

Want KIDS to INHIBIT LOGONs during the install? YES// **NO**

Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// **NO**

Enter the Device you want to print the Install messages.

You can queue the install by enter a 'Q' at the device prompt.

Enter a '^' to abort the install.

DEVICE: HOME// **<Enter>**



## APPENDIX A: Sample KIDS Load & Installation

---

```
Install Started for PSB 2.0 :  
    May 10, 2002@10:05:52  
  
Build Distribution Date: May 10, 2002  
  
Installing Routines:  
    May 10, 2002@10:05:52  
  
Install Started for PSS*1.0*46 :  
    May 10, 2002@10:05:52  
  
Build Distribution Date: May 06, 2002  
  
Installing Routines:  
    May 10, 2002@10:05:52  
  
Installing Data Dictionaries:  
    May 10, 2002@10:06:03  
  
Updating Routine file...  
  
The following Routines were created during this install:  
PSSJXR  
PSSJXR1  
PSSJXR10  
PSSJXR11  
PSSJXR12  
PSSJXR13  
PSSJXR14  
PSSJXR15  
PSSJXR16  
PSSJXR17  
PSSJXR18  
PSSJXR19  
PSSJXR2  
PSSJXR20  
PSSJXR21  
PSSJXR22  
PSSJXR23  
PSSJXR24  
PSSJXR25  
PSSJXR26  
PSSJXR3  
PSSJXR4  
PSSJXR5  
PSSJXR6  
PSSJXR7  
PSSJXR8  
PSSJXR9
```

## APPENDIX A: Sample KIDS Load & Installation

---

```
Updating KIDS files...

PSS*1.0*46 Installed.
      May 10, 2002@10:06:05

Install Message sent  # 150566

Install Started for PSJ*5.0*58 :
      May 10, 2002@10:06:05

Build Distribution Date: May 06, 2002

Installing Routines:
      May 10, 2002@10:06:07

Installing Data Dictionaries:
      May 10, 2002@10:06:08

Installing Data:
      May 10, 2002@10:06:09

Installing PACKAGE COMPONENTS:

Installing SECURITY KEY

Installing PROTOCOL
  Located in the PSJ (INPATIENT MEDICATIONS) namespace.
  Located in the PSJ (INPATIENT MEDICATIONS) namespace.
  Located in the PSJ (INPATIENT MEDICATIONS) namespace.
  Located in the PSJ (INPATIENT MEDICATIONS) namespace.
  Located in the PSJ (INPATIENT MEDICATIONS) namespace.
  Located in the PSJ (INPATIENT MEDICATIONS) namespace.
  Located in the PSJ (INPATIENT MEDICATIONS) namespace.
  Located in the PSJ (INPATIENT MEDICATIONS) namespace.

Installing LIST TEMPLATE

Installing OPTION
      May 10, 2002@10:06:10

Running Post-Install Routine: EN^PSJUTL3

Updating Routine file...
```

## APPENDIX A: Sample KIDS Load & Installation

---

The following Routines were created during this install:

PSGXR3  
PSGXR31  
PSGXR310  
PSGXR311  
PSGXR312  
PSGXR32  
PSGXR33  
PSGXR34  
PSGXR35  
PSGXR36  
PSGXR37  
PSGXR38  
PSGXR39

Updating KIDS files...

PSJ\*5.0\*58 Installed.  
May 10,2002@10:06:12

Install Message sent # 150567

Install Started for BAR CODE MED ADMIN 2.0 :  
May 10, 2002@10:06:12

Build Distribution Date: May 10, 2002

Installing Routines:  
May 10, 2002@10:06:14

Installing Data Dictionaries:  
May 10, 2002@10:06:17

Installing Data:  
May 10, 2002@10:06:19

Installing PACKAGE COMPONENTS:

Installing SECURITY KEY

Installing FORM

Installing REMOTE PROCEDURE

Installing OPTION

Installing PARAMETER TEMPLATE  
May 10, 2002@10:06:32

## APPENDIX A: Sample KIDS Load & Installation

---

```
Updating Routine file...
Updating KIDS files...
BAR CODE MED ADMIN 2.0 Installed.
      May 10, 2002@10:06:33
Install Message sent  # 150569

                        BAR CODE MED ADMIN 2.0
-----

Running Post-Install Routine: EN^PSB0000
Requested Start Time: NOW//  (MAY 10, 2002@10:06:35)

The build of the PATCH xref is queued
(to start NOW).

YOU WILL RECEIVE A MAILMAN MESSAGE WHEN TASK #1097834 HAS COMPLETED.

Updating Routine file...
Updating KIDS files...
PSB 2.0 Installed.
      May 10, 2002@10:06:35
Install Message sent  # 150570
-----
100%    [-----]
Complete |          25          50          75          |
Install Completed
```